

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 12, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500645, issued to GASTAR EXPLORATION USA, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: E. FORRESTER NO. 1

Farm Name: JENNINGS, RONALD W. ., ET AL.

API Well Number: 47-9500645

Permit Type: Plugging
Date Issued: 12/12/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 2. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01 Date: September 26, 2013
 Operator's Well Number

E. Forrester No.1

API Well No: 47 - 095 - 0645

State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE:	Oil (If "Gas	X Gas	X	_ Liquid Inject Underground		0	Waste Dispo	_	allow	X	
5) LOCATION:	Elevation: District:	1006' McElroy	05	Watershed: County:	_	oy Creel	k	ıadrangle	Shirley		601
6) WELL OPERAT Address	229 W.	Exploration, Ltd. Main St., Suite aurg, WV 26301	301	494487685	7) DESIG		O AGENTAddress		cCown Main St., urg, WV		
8) OIL & GAS INS. Name Address	PECTOR TO Joe Taylor 497 Claylick Ripley, WV	Road			9) PLUG Name Addre	1	CONTRACT	OR			
10) WORK ORDER: CASING	The work o	rder for the man TD-2,081'	ner of plu Coal:		is as follo	ws:					
12" 16' 6" 1,935'		Gel Plug No. 1 Freepoint, Cu Plug No. 2 Plug No. 3 Plug No. 4	it & Pull 105 45	0 - 1885		st.)					
		Free point, cut of any cas Fill Well Bore Erect Monum	and pull ing left in with 6%	n well. Gel Between a	7. 1		00 ft. cemen	at plug at bo	ed		
CEMENT PLUE WITH NO MOD OTHER ADDIT	RR THAN	3 00 CC	2 00	B NO.			Re	Office of	Oil and Gr	ys N Prote	ction
Inspector 24 hours b	before permi	tted work can c	ommeno	ce.			1	N Dept. of 2			
Work order appro	oved by Insp	pector h	M	15				Date 10	o-28-19	?	

WELL RECORD

Operator: Gastar Exploration, Ltd.

229 West Main Street Clarksburg, WV 26301

(304) 622-4796

Well: E. Forrester No.1

API 47-095-0645

Latitude: 39°25'41.0"

Northing: 4,364,308

Longitude: 80°47'48.0"

Elevation: 1,006'

Easting: 517,514

TD: 2,081'

Producing Formation: Big Injun

12" 16'

UTM Coordinates (NAD 1983)

Casing Record

Spud Date: 6/10/1896

6" 1,935'

Completion Date: 7/26/1896

Well Log

Not Available

Received

NOV

Office of Oil and Gee Protection

Office of Cil and Gee Protection

DAVID W. PERKINSON
377 Eastview Drive
Parkersburg. WV 26104
My commission expires June 11, 202

WW-4A
Revised 6-07
Surface Owner Copy

WW-4A

Revised 6-07
Surface Owner Copy

1)	Date:	Septembe	r 26	, 2013		
2)	Operator's W	ell Number				
		E. Forre	ester	No.1		
3)	API Well No	: 47	_	095	-	0645
		State		County		Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Own	ner(s) to be served:		5)	(a) Coal Ope	erator:	
	(a) Name	Ronald W. Jennings, et al.	\checkmark		Name	NA	
	Address	64 Fenwick Ct.	1		Address	11 III III III III	
		Dover, DE 19904					30,72,77
	(b) Name	Alva D. Spencer Estate	V		(b) Coal Ov	vner(s) with Declaration	
	Address	C/O Marcia Mronzinski	- 1		Name	NA	
		3471 Maradee Ct.			Address		
	(c) Name	Farwell, MI 48622					
	Address				Name		
					Address	120-11	
		1				NA	
6)	Inspector	Joe Taylor			(c) Coal Les	ssee with Declaration	
	Address	497 Claylick Road			Name		
		Ripley, WV 25271			Address		
	Telephone	304-380-7469	3 190 714			1	and stage (2)
					firm in the		I with the second

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- The Application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and
- 2) The plat (surveyor's map) showing the well location on Form WW-6

The reason you have received these documents is that you have rights regarding the application which are summarized in the intructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator	Gastar Exploration, Ltd.
	By:	hushing hie Com Mike McBolls
	Its:	COO & Designated Agent
	Address	229 W. Main St., Suite Gol
		Clarksburg, WV 26301
	Telephone	(304) 622-4796
		Mos and Gas Protect
Subscribed and sworn before me this	th day of	Octobe 2013 Office of Oil amental
	Dunt 1	Clarksburg, WV 26301 (304) 622-4796 Octobe 2013 Office of Oil and Gas Protection NOV Office of Oil and Gas Protection Novince of Oil and Oil
My Commision Expires	June	11 2020
		OFFICIAL SEAL

SURFACE OWNER WAIVER

Operator's Well Number E. Forrester No.1 47- 095- 0645

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective:
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plated as a survey plated and Survey plated as a survey plate

I further state that I have no objection to the planned wo	ork described in these materials and I have n	o
objection to a permit being issued on those materials.	" of Of C"	
FOR EXECUTION BY A NATURAL PERSON	for execu nto n by a copporation	ſ,
ETC.	NOV I ant of	
Horizon Dropousio Date H.5 2013 Name	NOV 1 standard of	itio:
Signature	My prental	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_{dY} OΠ'' Date	_
	Ella	_
	Signature Date	

Form	WW.	G

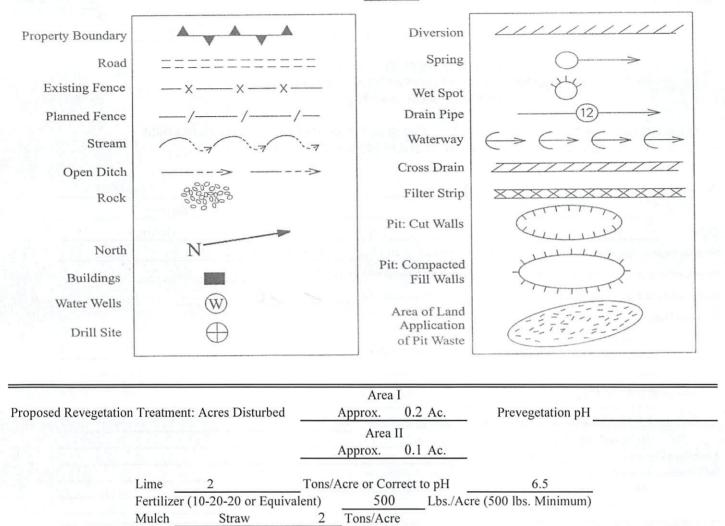
	Page_	3	of _	3
API No	ımber 47-	095]	0645
Operator's Well No.	E. For	rrester	No.1	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

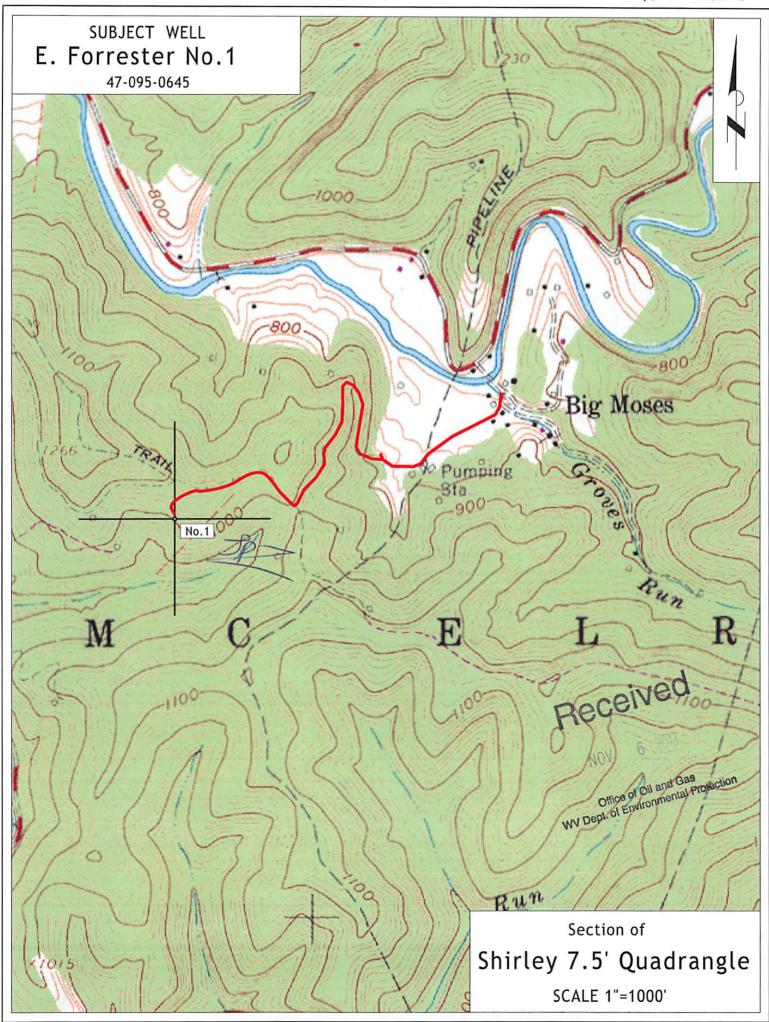
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	Gastar Exp	oloration, Ltd.		OI	Code	494487685
Watershed	McElroy (Creek		Quadrangle	Shir	ley 7.5'
Elevation	1006'	County	Tyler	District_	Mo	Elroy
Description (of anticipated Pit Waste:	Fluids encountere	d in plugging subj	ect well		
Do you antic	ipate more than 5,000 bbls o	of water to complete the	proposed well work?	Yes	No	X
Will a synthe	etic liner be used in pit?	Yes If so	, what mil.?	_2c		
Proposed Dis	Reuse (at AP Off Site Disp	ition Injection (UIC Permit Number Osal (Supply Form WW	Number -9 for disposal location))
Drilling med	ium anticipated for this wel If oilbased, what type? Sy		htt			
Drill cutting	s disposal method? Leave ir - If left in pit and plan to so - Landfill or offsite name/pe	lidify, what medium w		NA nc, sawdust	N/	Λ
that the provapplicable la this applicat	gust 1, 2005, by the Office or visions of the permit are enfow or regulation can lead to early under penalty of laion form and all attachments the information, I believe the submitting false information	orceable by law. Violation onforcement action. we that I have personall se thereto and that, based that the information is t	ons of any term or cond y examined and am fan ed on my inquiry of thos rue, accurate and comp	ition of the general niliar with the info se individuals imm lete. I am aware th	l permit a rmation s ediately r nat there a	nd/or other ubmitted on esponsible
Company C	Official Signature	hust	- how lan	\rightarrow \text{TF}	900	:814
Company C	Official (Typed Name)	Mike	McCown	,	J. Harry	25.00
Company C	Official Title	COC	& Designated Age	ent	40	! 6 Sam
					140	ed Gas had
Subscribed	and sworn before the this	1 4th days	i Octo.	,	Otary Pul	ince of Cili and Gas Ince of Cili and Gas Ince of Cili and Gas Ince of Gas Inc
My commis	sion expires) 4ng //	2020			
Form WW-	9	,			DAV	OFFICIAL SEAL Public. State of West Virginia ID W. PERKINSON 317 Enstylew Drive tarkursburg. WV 26104 mission expires June 11, 2020

Legend



			SEE	D MIXTURE	S		
	Seed Type Tall Fescue	Area I (Locati	on) Lbs/Ac.		eed Type fall Fescue	a II (Road)	Lbs/Ac.
	Ladino Clover		5		adino Clover	CHOD	5
	- 401	lana		_	0,0	20 E	Sa mon
Attach		eation nit and prop	osed area for land app	lication		MON ,O	Il and Cas Protect
		involved 7.5' topo		reation		Office of Envi	ll and Gas Protection
Pl	an Approved by:	(fel)				Moo	A os hvije sis
Co	omments:	1 '					
	Title:	specter		Year	Date:	10-28-13	a males riffe a vo
	Field Reviewed?	X	Yes		No		



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47	095 -	0645		WELL NO:	No.1
FARM NAME:	E. Forr	ester	·		
RESPONSIBLE PARTY	NAME:	Gastar E	Exploration, Ltd.		
COUNTY:	Tyler			DISTRICT:	McElroy
QUADRANGLE:		Shirley 7.5'			
SURFACE OWNER:		Ronald W. Jennin	gs, et al.	_	
ROYALTY OWNER:		Ronald W. Jennin	gs, et al.		
UTM GPS NORTHING:		4,364,308	(NAD 83)		
UTM GPS EASTING:		517,514	(NAD 83) GP	S ELEVATION:	307 m. (1006 FT)
height abo	tion plat GPS coo AD 1983 we mean o Datum ction Me	for a plugging permordinates that do not , Zone:17 North, C sea level (MSL) - n - 3.05 meters	it on the above meet the follow Coordinate Units neters.	well. The Office ving requirement : meters, Altitud	s: le:
Mapping Grade	GPS X	Real-Time Differed Post Processed Di Real-Time Differed	fferential X	— — :- —	Received
I the undersigned, hereby belief and shows all the in prescribed by the Office of the land	formation f Oil and	n required by law a	nd the regulation	thowledge and ns issued and COO & Desig	MA Debt of Euritouweurg
Signature			Tit	le	
September 26, 20 Date	013		_		